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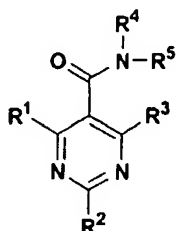
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- (74) Agent: **ALGIERI, Aldo, A.**; Bristol-Myers Squibb Company, P.O. Box 4000, Princeton, NJ 08453-4000 (US).
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- Published:**
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(54) Title: 2,4-DISUBSTITUTED PYRIMIDINE-5-CARBOXAMIDE DERIVATIVES AS KCNQ POTASSIUM CHANNEL MODULATORS



(I)

(57) Abstract: There is provided a method of treatment for disorders responsive to the modulation of KCNQ potassium channels by administering to a mammal in need thereof a therapeutically effective amount of a 2,4-disubstituted pyrimidine-5-carboxamide derivative of Formula (I) wherein R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup> and R<sup>5</sup> are as defined in the description. The present invention also provides pharmaceutical compositions comprising openers or activators of the KCNQ potassium channels and especially to the method of treatment of disorders sensitive to KCNQ potassium channel opening activity such as migraine.

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## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/04305

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 A61K31/505 A61P25/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, MEDLINE, EMBASE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 852 028 A (M. J. SUTO ET AL) 22 December 1998 (1998-12-22) cited in the application claims 1-39	5,6
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X	US 5 811 428 A (M. J. SUTO ET AL) 22 September 1998 (1998-09-22) cited in the application claims 1-27	5,6
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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 International Application No  
 PCT/US 02/04305

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>"ION CHANNELS - MOLECULAR DIVINING RODS HIT THEIR CLINICAL MARK" NEW ENGLAND JOURNAL OF MEDICINE, THE, MASSACHUSETTS MEDICAL SOCIETY, WALTHAM, MA, US, vol. 336, no. 22, 29 May 1997 (1997-05-29), pages 1599-1600, XP001030467 ISSN: 0028-4793 the whole document</p>	1-6
A	<p>WANG H-S ET AL: "KCNQ2 AND KCNQ3 POTASSIUM CHANNEL SUBUNITS: MOLECULAR CORRELATES OF THE M-CHANNEL" SCIENCE, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, US, vol. 282, 4 December 1998 (1998-12-04), pages 1890-1898, XP002900985 ISSN: 0036-8075 cited in the application the whole document</p>	1-6
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A	<p>MAIN M J ET AL: "MODULATION OF KCNQ2/3 POTASSIUM CHANNELS BY THE NOVEL ANTICONVULSANT RETIGABINE" MOLECULAR PHARMACOLOGY, BALTIMORE, MD, US, vol. 58, no. 2, August 2000 (2000-08), pages 253-262, XP000972245 ISSN: 0026-895X cited in the application abstract</p>	1-6

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International Application No  
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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